

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/510,627A

Source: PG 1/10

Date Processed by STIC: 9/2/05

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 09/02/2005

PATENT APPLICATION: US/10/510,627A

TIME: 15:00:09

Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\09012005\J510627A.raw

```

3 <110> APPLICANT: TOKAI UNIVERSITY
4     KYOWA HAKKO KOGYO CO., LTD.
5     KYOWA MEDEX CO., LTD.
7 <120> TITLE OF INVENTION: A diagnostic method and a diagnostic agent for
8     leukemia, preleukemia and leukemic malignant hemopathy
10 <130> FILE REFERENCE: 09617.0001
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/510,627A
C--> 13 <141> CURRENT FILING DATE: 2004-10-08
15 <150> PRIOR APPLICATION NUMBER: JP P2002-106786
16 <151> PRIOR FILING DATE: 2002-04-09
18 <160> NUMBER OF SEQ ID NOS: 11
20 <170> SOFTWARE: PatentIn Ver. 2.1
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 302
24 <212> TYPE: PRT
25 <213> ORGANISM: Homo sapiens
27 <400> SEQUENCE: 1
28 Ala Arg Gly Ala Glu Arg Glu Trp Glu Gly Gly Trp Gly Gly Ala Gln
29   1           5           10           15
31 Glu Glu Glu Arg Glu Arg Glu Ala Leu Met Leu Lys His Leu Gln Glu
32           20           25           30
34 Ala Leu Gly Leu Pro Ala Gly Arg Gly Asp Glu Asn Pro Ala Gly Thr
35           35           40           45
37 Val Glu Gly Lys Glu Asp Trp Glu Met Glu Glu Asp Gln Gly Glu Glu
38           50           55           60
40 Glu Glu Glu Glu Ala Thr Pro Thr Pro Ser Ser Gly Pro Ser Pro Ser
41  65           70           75           80
43 Pro Thr Pro Glu Asp Ile Val Thr Tyr Ile Leu Gly Arg Leu Ala Gly
44           85           90           95
46 Leu Asp Ala Gly Leu His Gln Leu His Val Arg Leu His Ala Leu Asp
47           100          105          110
49 Thr Arg Val Val Glu Leu Thr Gln Gly Leu Arg Gln Leu Arg Asn Ala
50           115          120          125
52 Ala Gly Asp Thr Arg Asp Ala Val Gln Ala Leu Gln Glu Ala Gln Gly
53           130          135          140
55 Arg Ala Glu Arg Glu His Gly Arg Leu Glu Gly Cys Leu Lys Gly Leu
56 145          150          155          160
58 Arg Leu Gly His Lys Cys Phe Leu Leu Ser Arg Asp Phe Glu Ala Gln
59           165          170          175
61 Ala Ala Ala Gln Ala Arg Cys Thr Ala Arg Gly Gly Ser Leu Ala Gln
62           180          185          190
64 Pro Ala Asp Arg Gln Gln Met Glu Ala Leu Thr Arg Tyr Leu Arg Ala
65           195          200          205

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67 Ala Leu Ala Pro Tyr Asn Trp Pro Val Trp Leu Gly Val His Asp Arg
68      210                      215                      220
70 Arg Ala Glu Gly Leu Tyr Leu Phe Glu Asn Gly Gln Arg Val Ser Phe
71 225                      230                      235                      240
73 Phe Ala Trp His Arg Ser Pro Arg Pro Glu Leu Gly Ala Gln Pro Ser
74      245                      250                      255
76 Ala Ser Pro His Pro Leu Ser Pro Asp Gln Pro Asn Gly Gly Thr Leu
77      260                      265                      270
79 Glu Asn Cys Val Ala Gln Ala Ser Asp Asp Gly Ser Trp Trp Asp His
80      275                      280                      285
82 Asp Cys Gln Arg Arg Leu Tyr Val Cys Glu Phe Pro Phe
83      290                      295                      300
86 <210> SEQ ID NO: 2
87 <211> LENGTH: 224
88 <212> TYPE: PRT
89 <213> ORGANISM: Homo sapiens
91 <400> SEQUENCE: 2
92 Ala Arg Gly Ala Glu Arg Glu Trp Glu Gly Gly Trp Gly Gly Ala Gln
93 1      5      10      15
95 Glu Glu Glu Arg Glu Arg Glu Ala Leu Met Leu Lys His Leu Gln Glu
96      20      25      30
98 Ala Leu Gly Leu Pro Ala Gly Arg Gly Asp Glu Asn Pro Ala Gly Thr
99      35      40      45
101 Val Glu Gly Lys Glu Asp Trp Glu Met Glu Glu Asp Gln Gly Glu Glu
102      50      55      60
104 Glu Glu Glu Glu Ala Thr Pro Thr Pro Ser Ser Gly Pro Ser Pro Ser
105 65      70      75      80
107 Pro Thr Pro Glu Asp Ile Val Thr Tyr Ile Leu Gly Arg Leu Ala Gly
108      85      90      95
110 Leu Asp Ala Gly Leu His Gln Leu His Val Arg Leu His Ala Leu Asp
111      100      105      110
113 Thr Arg Val Val Glu Leu Thr Gln Gly Leu Arg Gln Leu Arg Asn Ala
114      115      120      125
116 Ala Gly Asp Thr Arg Asp Ala Val Gln Ala Leu Gln Glu Ala Gln Gly
117      130      135      140
119 Arg Ala Glu Arg Glu His Gly Arg Leu Glu Gly Cys Leu Lys Gly Leu
120 145      150      155      160
122 Arg Leu Gly His Lys Cys Phe Leu Leu Ser Arg Asp Phe Glu Ala Gln
123      165      170      175
125 Pro Ser Ala Ser Pro His Pro Leu Ser Pro Asp Gln Pro Asn Gly Gly
126      180      185      190
128 Thr Leu Glu Asn Cys Val Ala Gln Ala Ser Asp Asp Gly Ser Trp Trp
129      195      200      205
131 Asp His Asp Cys Gln Arg Arg Leu Tyr Tyr Val Cys Glu Phe Pro Phe
132      210      215      220
135 <210> SEQ ID NO: 3
136 <211> LENGTH: 248
137 <212> TYPE: PRT
138 <213> ORGANISM: Homo sapiens

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140 <400> SEQUENCE: 3

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142 Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
143   1           5           10           15
145 Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
146           20           25           30
148 Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
149           35           40           45
151 Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
152           50           55           60
154 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
155  65           70           75           80
157 Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
158           85           90           95
160 Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
161           100          105          110
163 Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
164           115          120          125
166 Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
167           130          135          140
169 Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
170 145           150          155          160
172 Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
173           165          170          175
175 Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
176           180          185          190
178 Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
179           195          200          205
181 Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu
182           210          215          220
184 Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu
185 225           230          235          240
187 Lys Glu Arg Glu Phe Gln Glu Val
188           245

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191 <210> SEQ ID NO: 4

192 <211> LENGTH: 22

193 <212> TYPE: PRT

194 <213> ORGANISM: Homo sapiens

196 <400> SEQUENCE: 4

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197 Arg Glu Trp Glu Gly Gly Gly Trp Gly Gly Ala Gln Glu Glu Arg
198   1           5           10           15
200 Glu Arg Glu Ala Leu Cys
201           20
204 <210> SEQ ID NO: 5
205 <211> LENGTH: 10
206 <212> TYPE: PRT
207 <213> ORGANISM: Homo sapiens
209 <400> SEQUENCE: 5
211 Ala Arg Gly Ala Glu Arg Glu Trp Glu Gly
212   1           5           10

```

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214 <210> SEQ ID NO: 6
215 <211> LENGTH: 10
216 <212> TYPE: PRT
217 <213> ORGANISM: Homo sapiens
219 <220> FEATURE:
220 <221> NAME/KEY: unsure
221 <222> LOCATION: (1)
222 <223> OTHER INFORMATION: Xaa is unsure
224 <400> SEQUENCE: 6
W--> 225 Xaa Leu Gln Glu Ala Leu Gly Leu Pro Ala
226      1              5              10
229 <210> SEQ ID NO: 7
230 <211> LENGTH: 10
231 <212> TYPE: PRT
232 <213> ORGANISM: Homo sapiens
234 <400> SEQUENCE: 7
235 Asp Gln Gly Glu Glu Glu Glu Glu Glu Ala
236      1              5              10
239 <210> SEQ ID NO: 8
240 <211> LENGTH: 22
241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial Sequence
244 <220> FEATURE:
245 <223> OTHER INFORMATION: Description of Artificial Sequence: oligo DNA base sequence
247 <400> SEQUENCE: 8
248 cccatcacca tcttccagga gc                                22
251 <210> SEQ ID NO: 9
252 <211> LENGTH: 26
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial Sequence
256 <220> FEATURE:
257 <223> OTHER INFORMATION: Description of Artificial Sequence: oligo DNA base sequence
259 <400> SEQUENCE: 9
260 ttcaccacct tcttgatgtc atcata                                26
263 <210> SEQ ID NO: 10
264 <211> LENGTH: 19
265 <212> TYPE: DNA
266 <213> ORGANISM: Artificial Sequence
268 <220> FEATURE:
269 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA primer
271 <400> SEQUENCE: 10
272 gtcctctttt ccctcaaca                                19
275 <210> SEQ ID NO: 11
276 <211> LENGTH: 18
277 <212> TYPE: DNA
278 <213> ORGANISM: Artificial Sequence
280 <220> FEATURE:
281 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA primer
283 <400> SEQUENCE: 11

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284 ttttgggggc tttggtgg

18

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/02/2005
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Input Set : A:\PTO.KD.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; Xaa Pos. 1

VERIFICATION SUMMARY

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Input Set : A:\PTO.KD.txt

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L:12 M:270 C: Current Application Number differs, Replaced Application Number

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:225 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0